

15 Gallon Sprayer Tractor Trunk Mounted (Serial No. 030001 –)



JOHN DEERE

OPERATORS MANUAL

15 Gallon Sprayer Tractor Trunk
Mounted (Serial No. 030001 –)

OMM135776 C8 English

John Deere
Lawn & Grounds Care Division
OMM135776 C8
North American Version

LITHO IN U.S.A.
ENGLISH



INTRODUCTION

THANK YOU for purchasing a John Deere product.

Read this manual and your vehicle manual thoroughly. Failure to do so could result in personal injury or equipment damage.



This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

Measurements in this manual are metric units and their U.S. customary equivalents. RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow () it indicates the part it is pointing to is hidden.

Product warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The product warranty is explained on the warranty certificate you received from your dealer.

Record identification numbers below. Be sure to record all the numbers to help in tracing the machine if it is stolen. You also need to give these numbers to your dealer when you order parts.

Date of Purchase:

Dealer Name:

Phone:

Serial Number:

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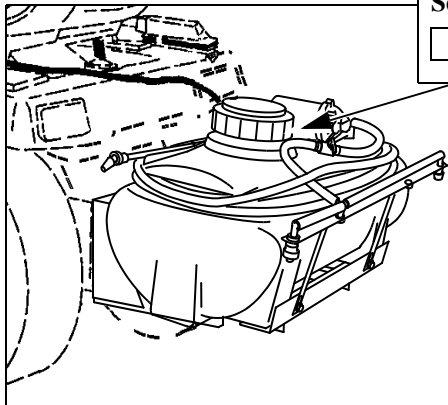


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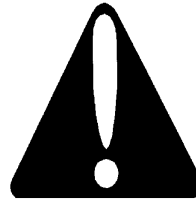
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John Deere Worldwide Commercial and
Consumer Equipment Division
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SAFETY SIGNS

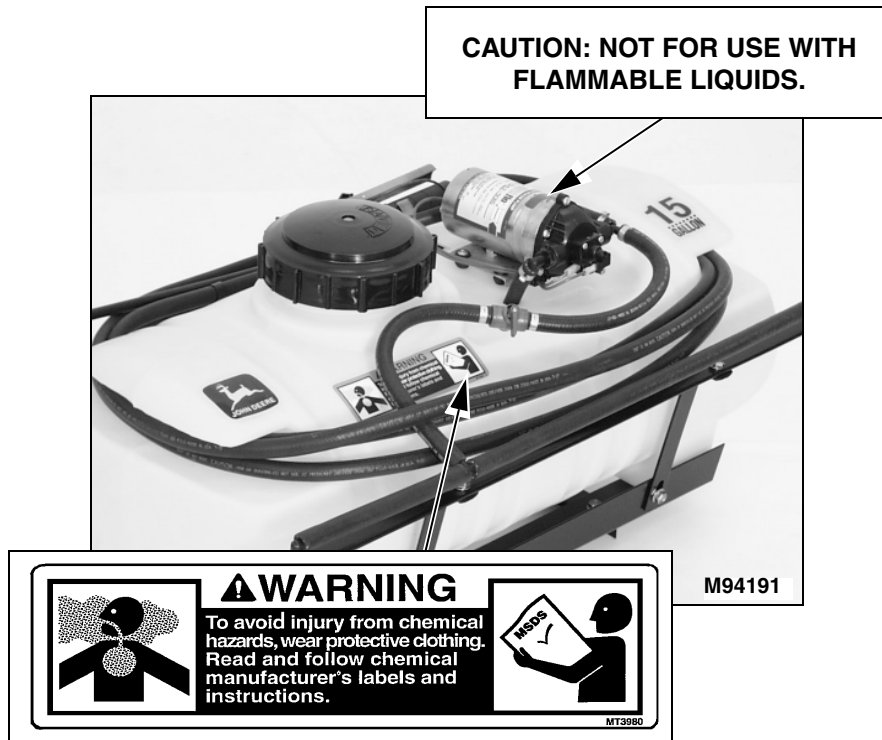
Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.



Machine Safety Labels

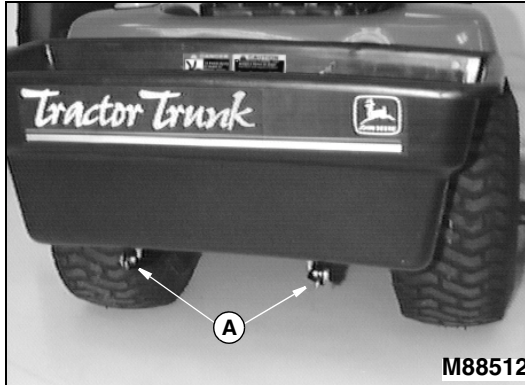


PREPARING THE VEHICLE

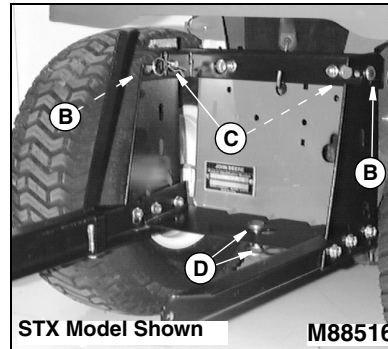
Remove Tractor Trunk

NOTE: To prevent loss of mounting pins upon removal of attachment, place pins through holes in support frame.

Remove two 3/8 x 3/4-Inch drilled pins, flat washers, and small spring locking pins (A), one on each side, and lift the trunk box assembly off of the support frame.



Inspect tractor trunk supporting frame mounting pins (B), (C), and (D). All mounting pins should be installed and properly secured.



PREPARING THE VEHICLE

Tractor Requirements

Make sure tractor tire pressure is correct. (See your tractor operator's manual for the correct pressure.)

Tractor weights improve stability. Add front weights for better front-end stability and steering. See your John Deere dealer for these weights. Instructions to install will come with the weights.

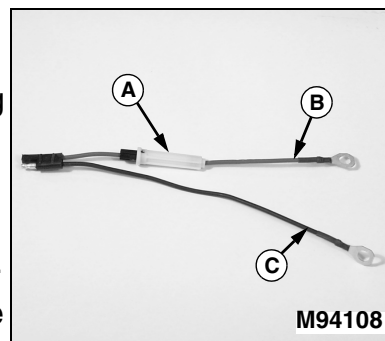
Tractors Equipped with a Front Mounted Battery. Wiring Harness Extension (Part Number: AM105666): This part is required on all tractors that have the battery located in front of the engine. Order this wiring harness from your John Deere dealer.

Install Wiring Harness Battery Connection

IMPORTANT: To help prevent a possible electric spark, install the red positive (+) wire to the positive battery terminal first. Then install the negative terminal.

NOTE: After the wiring harness battery connection is installed on the battery, it can remain installed even when the main wiring harness is removed. **MAKE SURE** hood does not close on wires or connectors.

1. Inspect fuse holder (A). Fuse holder should contain a 15 A / 32 V fuse. Fuse should be in good working condition.
2. Route red lead inside red rubber terminal cover and connect red lead (B) to positive (+) terminal of battery.
3. Connect black lead (C) to negative (-) terminal of battery.



INSTALLING

Park Vehicle Safely

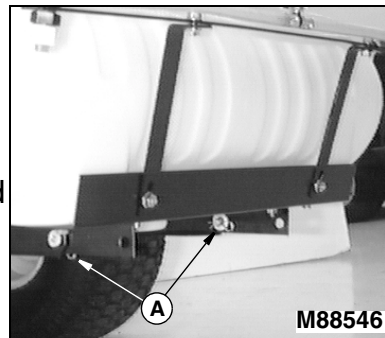
- Stop vehicle on a level surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

Attaching Sprayer to Tractor Trunk Mounting Frame

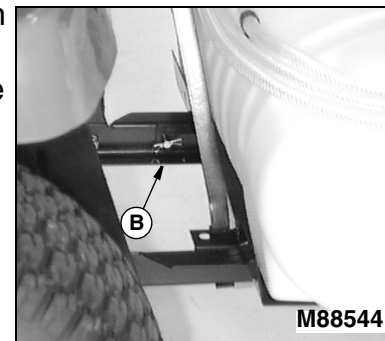
IMPORTANT: A third drilled pin and spring locking pin (B) should be installed at the front of the sprayer mounting to secure the unit to the Tractor Trunk frame so it cannot be inadvertently dumped by moving the dump lever on the tractor trunk frame.

NOTE: Tractor Trunk mounting frame must be installed.

1. Mount the sprayer on the support arms of the Tractor Trunk mounting frame using two 3/8 x 3/4-Inch drilled pins and spring locking pins (A) taken from the Tractor Trunk mounting frame assembly.

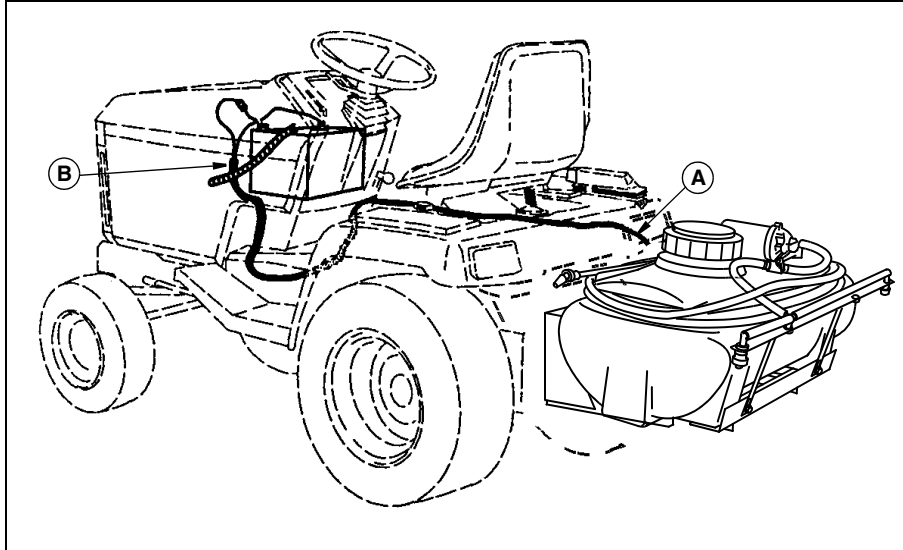


2. Install one 3/8 x 3/4-Inch drilled pin and spring locking pin (B) on right side of the sprayer mounting. (These pins can be found in the Bag of Parts.)



INSTALLING

Route Wiring Harness – Units Equipped with Mid Battery

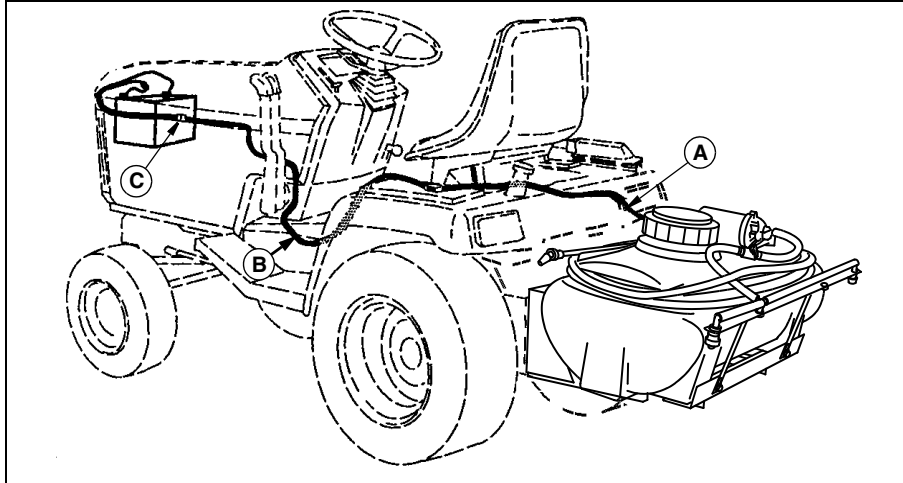


NOTE: Switch is not located in the center of the main wiring harness. Position wiring harness switch as needed by turning wiring harness around. **MAKE SURE** hood does not close on wires or connectors.

1. Connect wiring harness to pump leads (A).
2. Route harness as shown. On some units route wire on right side of fuel tank filler.
3. Connect other end to the battery connection wiring harness lead (B).

INSTALLING

Route Wiring Harness – Units Equipped with Front Battery



NOTE: Switch is not located in the center of the main wiring harness. Position wiring harness switch as needed by turning wiring harness around. MAKE SURE hood does not close on wires or connectors.

1. Connect wiring harness to pump leads (A).
2. Route harness as shown. On some units route wire on right side of fuel tank filler.

NOTE: You will need a 74 cm (29-in.) extension wire. Purchase from your John Deere dealer (Part Number: AM105666).

3. Connect extension (B), not furnished; to short end from switch. Then route extension under forward hood rod and connect it to battery leads.
4. Connect other end to the battery connection wiring harness lead (C).

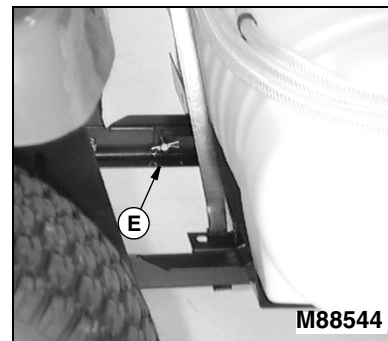
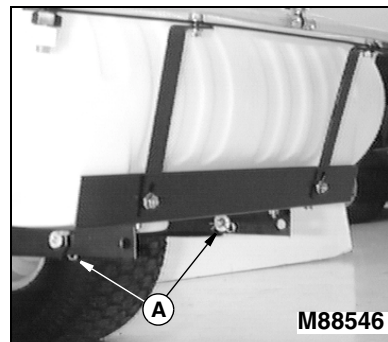
REMOVING

Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

Removing Sprayer

1. Flush and empty sprayer tank.
2. Disconnect wiring harness from wiring harness battery connection lead. Roll main harness and store with sprayer.
3. Remove three drilled pins and spring locking pins (A) and (B).
4. Slide sprayer off Tractor Trunk frame.
5. Put pins (A) in Tractor Trunk mounting frame and pins (B) with sprayer for storage.



OPERATING

SAFETY

Operate Safely



- Check vehicle brake action before you operate. Adjust or service brakes as necessary.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Make repairs before you operate. Keep machine properly maintained and in good working order.
- Keep children away from spraying area.
- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- DO NOT let anyone, especially children, ride on sprayer or vehicle.
- DO NOT let children or untrained person operate machine.
- Do not direct spray toward bystanders or allow anyone near sprayer while in operation.
- If spray comes in contact with your body, immediately follow directions on chemical container pertaining to spray material.
- Do not spray during extreme heat or windy weather.
- Do not put nozzle tip or other parts to your lips to blow out dirt.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.

OPERATING

Wear Appropriate Clothing



- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.

Use Chemicals Safely



- DO NOT use flammable liquids.
- Chemicals can be dangerous. Improper selection or use can injure persons, animals, plants, soil or other properties.
- Follow directions for each specific chemical.
- Add chemicals to water—not water to chemicals.
- Never allow the water hose that is used to fill the tank to actually reach down into the spray mix. You may “contaminate” the end of the hose.
- Your spray dealer can tell you which sprays need to be followed by a spray neutralizer material.

OPERATING

Dispose of Chemicals Safely



- Proper disposal of excess spray material is very important. If you have excess spray material, it is best to dilute it with water and spray it on the area you previously sprayed.
- Never DUMP material in a drain or near a lake or stream.
- A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques. See your Chemical Spray dealer for the MSDS on chemical products used with your machine.

Transporting Sprayer Safely

- Use caution when transporting the sprayer to help prevent possible injury.
- When filled with liquid, the 15 gallon sprayer weighs 69 kg (153 lbs). This extra weight on the back of a tractor could change the stability of the machine.

OPERATING

Spraying Tips

- Check sprayer tip height. Dimension should be 432 mm (17 in.). If not, adjust sprayer tip height before operating. (See Adjusting Tip Height and Width in this section.)
- Do not let sprayer run in one spot.
- Do not over spray when you use weed killers.
- Liquid spray material is recommended. Sprayer does not agitate wettable powders.
- Timely applications of a smaller dosage are better than large applications.
- Turn sprayer OFF during turns to avoid double spraying.
- Fill sprayer where spills cannot harm grass.
- Follow manufacturer's recommendations for application of specific chemicals.
- Stop sprayer when tank is empty.

General Spraying Information

Understand the following information about your sprayer. The unit operates at a fixed pressure of 620 kPa (90 psi). This results in actual spraying time of 25 minutes for 15 gallons.

15 GALLON SPRAYER APPLICATION: The 15 gallon sprayer takes 12 minutes to empty the tank using the spray boom. Plan on driving about 3 mph or 264 ft. per minute. That gives you 15,840 square ft. of spray coverage per tank. Plan on about 10 per cent overlap, so put enough chemical in the tank for 14,000 square ft. of spray coverage.

OPERATING

Adjusting Tip Height and Width

1. Attach sprayer to tractor. This will determine sprayer frame level.

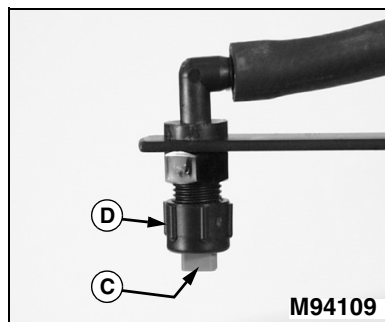
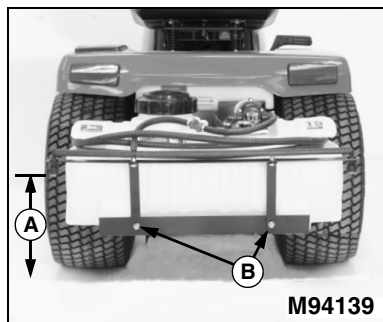
2. Measure from spray tip to ground. Distance to ground (A) should be approximately 432 mm (17 in.).

If necessary, adjust boom height by raising or lower the boom on the slotted boom supports (B).

3. Check spray tips (C). Tips should be parallel with the boom.

If necessary, loosen spray tip cap nut (D). Align spray tip (C) and tighten cap nut.

4. Test spray pattern with water on driveway or sidewalk.



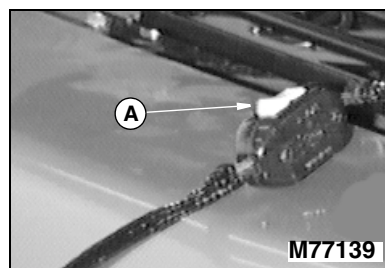
Starting and Stopping Sprayer



CAUTION: Before you leave sprayer, disconnect pump connection.

IMPORTANT: Sprayer will start when tractor IS NOT running. Start tractor to avoid running down battery.

1. Push switch (A) to ON or OFF position to START or STOP sprayer.



OPERATING

Selecting Handgun or Boom Nozzles

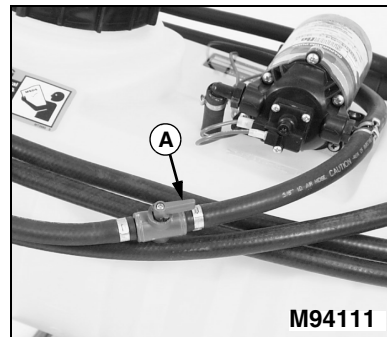
NOTE: The shut-off valve lever (A) on the sprayer has two positions:

- **ON POSITION:** Lever is parallel with hose. Pump flow is directed to the sprayer boom.
- **OFF POSITION:** Lever is perpendicular with hose. Pump flow is directed to the handgun.

Selecting Handgun or Sprayer Boom

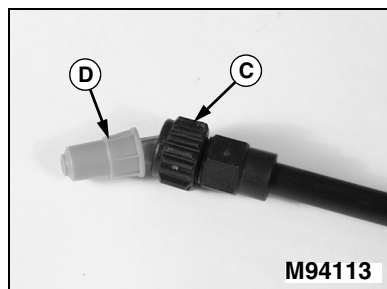
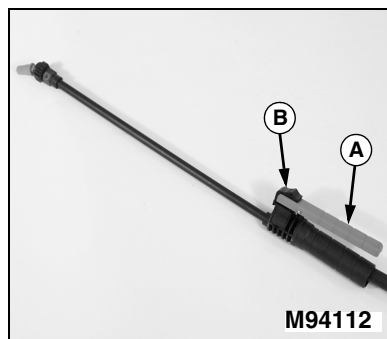
TO USE HANDGUN: Turn lever (A) so that it is perpendicular with hose. You can now use the handgun for spraying.

TO USE SPRAYER BOOM: Turn lever (A) so that it is parallel with hose. You can now use the boom nozzles for spraying.



Using Handgun

1. On wheeled sprayers only, turn valve to select handgun operation.
2. Squeeze handle (A) to spray.
3. Push lock (B) forward to lock handle in "ON" position.
4. Adjust nozzle:
 - Nozzle Angle - Loosen locknut (C). Turn nozzle (D) as desired and tighten locknut.
 - Nozzle Spray Pattern - To change the spray pattern, tighten or loosen nozzle (D) as desired.



REPLACEMENT PARTS

WE RECOMMEND JOHN DEERE quality parts and lubricants, available at your John Deere dealer.

PART NUMBERS MAY CHANGE, use part numbers listed below when you order. If a number changes, your dealer will have the latest number.

WHEN YOU ORDER PARTS, your John Deere dealer needs your machine serial number. This is the number you have recorded in the **INTRODUCTION** section in the front of this manual.

ITEM	PART NUMBER
Tip Strainer	AM106667
Fuse (15 amp)	AT39227

(Part numbers are subject to change without notice. Part Numbers may be different outside the U.S.A.)

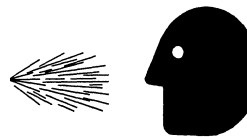
If you would like a copy of the Parts Catalog for this machine, please use the **Order Form** in the JOHN DEERE SERVICE LITERATURE section.

SERVICE MACHINE SAFELY

Practice Safe Maintenance



- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- To prevent them from getting caught, keep hands, feet, clothing, jewelry, and long hair away from any moving parts.
- Before you service, adjust, clean or inspect sprayer:
 - STOP the vehicle engine.
 - Turn sprayer switch OFF.
 - Disconnect pump connection.
- Securely support any machine elements that must be raised for service work.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.
- Unauthorized modifications to the machine may impair its function and safety.
- If spray comes in contact with your body, immediately follow directions on chemical container pertaining to spray material.
- Keep spare filters available for replacement.



SERVICE MACHINE SAFELY

Wear Appropriate Clothing



- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while servicing the machine. Safe servicing requires your full attention.

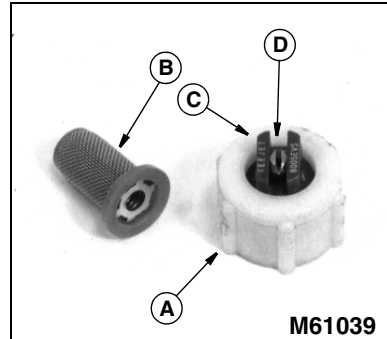
SERVICE

Cleaning Spray Nozzle

1. Remove spray nozzle (A) from sprayer.
2. Disassemble filter (B) and spray tip (C).

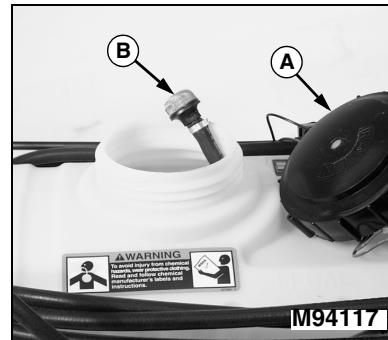
NOTE: Do not use a wire to clean opening (D) in spray tip.

3. Wash filter and spray tip in a non-flammable solvent.
4. Put spray tip in spray nozzle.
5. Put flat side of filter in spray nozzle.
6. Install assembly on sprayer and tighten nozzle.



Cleaning Pump Suction Screen

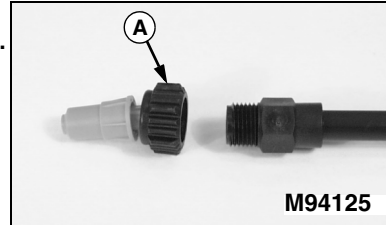
1. Remove tank cover (A).
2. Locate suction screen (B) inside sprayer tank.
3. If necessary, unscrew suction screen and clean with liquid detergent and warm water.
4. If suction screen was removed, install on suction hose and position in the lowest depression inside sprayer tank.
5. Install and tighten tank cover.



SERVICE

Cleaning Handgun Nozzle

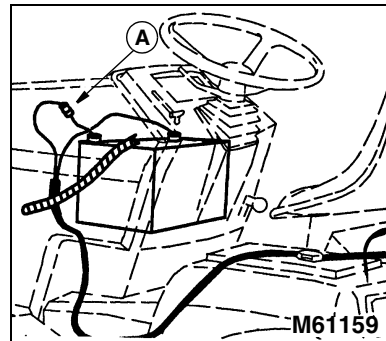
1. Unscrew nozzle (A) from handgun.
2. Wash nozzle with liquid detergent and warm water.
3. Install and tighten nozzle.



Changing Fuse

IMPORTANT: When replacing a blown fuse, it is important to use only a fuse having the correct amperage rating. The use of a fuse with a rating other than indicated may result in a dangerous electrical system overload. If a properly rated fuse continues to blow, it indicates a problem in the circuit that must be corrected.

1. Open tractor hood.
2. Hold each end of fuse holder (A) located on positive battery terminal.
3. Twist holder open.
4. Remove fuse.
5. Install new 15 amp fuse.
6. Twist holder closed.
7. Close tractor hood.

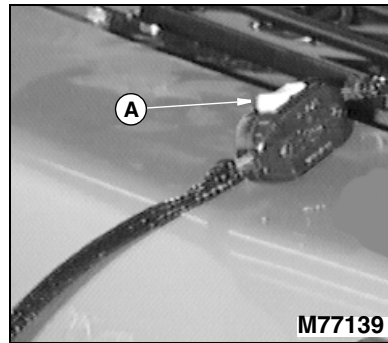


SERVICE

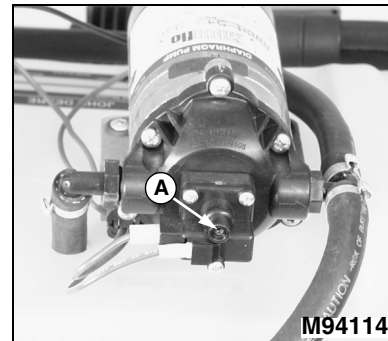
Adjusting Pump

- IMPORTANT:**
- Stop turning wrench as soon as pump runs smoothly, or you may damage pump.
 - Start tractor when you use sprayer to avoid running down battery.

1. Park tractor where spray will do no damage.
2. STOP engine.
3. Push switch (A) to ON.



4. Using a allen wrench, turn set-screw clockwise until pump runs smoothly.



TROUBLESHOOTING

Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your John Deere dealer for service.

When you have checked all the possible causes listed and you are still experiencing the problem, see your John Deere dealer.

IF	ACTION
Pump Loses Suction	Clean pump suction screen.
	Check tank fill level. Fill tank.
	Clean or replace pump.
	Check for loose pump fittings.
Pump Capacity Decreased	Clean pump suction screen.
	Clean spray nozzle(s).
	Selection lever is not completely turned on, or is in the OFF position.
Poor Spray Pattern	Clean spray nozzle(s).
	Adjust nozzle height.
	Adjust spray tip - parallel with boom.
Pump Vibrates or Spray Pulsates	Adjust pump.

TROUBLESHOOTING

IF	ACTION
Pump Does Not Work	Check wiring connections.
	Check tractor battery.
	Clean debris from pump.
	Check pump switch.
	Check pump motor.
	Check fuse at battery.
	Adjust pump

STORING SPRAYER

Store Sprayer Safely



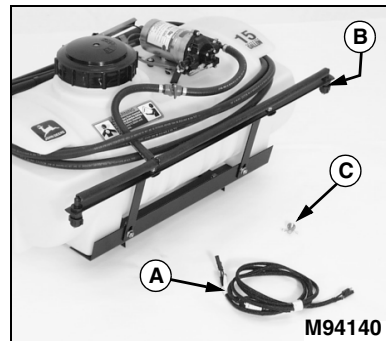
CAUTION:



To avoid chemical injury:

- Wear protective clothes, gloves and goggles when handling sprayer.
- Do not store sprayer with chemicals in tank.
- If spray comes in contact with your body, immediately follow directions on chemical container pertaining to spray material.

1. Pump all spray material from tank.
2. Flush tank with water.
3. Rinse tank thoroughly with a solution of household ammonia and water.
4. Flush again with clear water.
5. Wipe out sump with a clean cloth or paper towel.
6. Drain hoses and pump filter.
7. Remove wiring harness (A) from tractor.
8. Remove sprayer (B) from tractor. See Removing Sprayer in the Removing section.
9. Remove and store 3/8 x 3/4 inch drilled pin and spring locking pin (C) that is locking the tractor trunk dumping lever.
10. Check sprayer for worn or damaged parts. Replace parts as needed.
11. Tighten loose hardware.
12. Store sprayer in a place where it will not freeze.

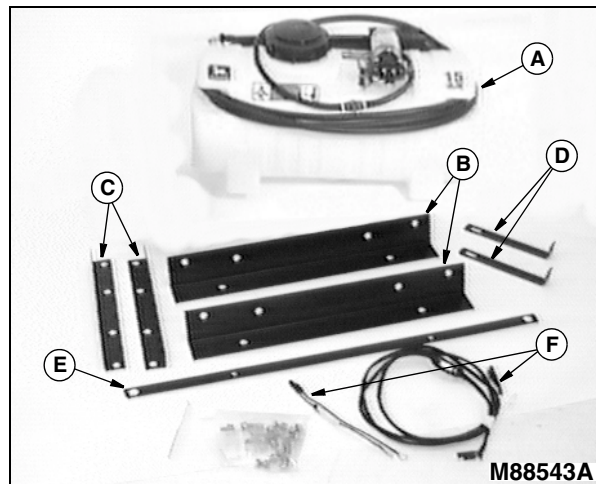


ASSEMBLY

Bag of Parts

Qty. Used	Part Description	Size
12	Flange Bolts	5/16 x 5/8 Inch
8	Flange Nuts	5/16 Inch
1	Drilled Pin	3/8 x 3/4 Inch
1	Spring Locking Pin	
2	Spray Tip Fitting Lock Nuts	
2	Spray Tip Fitting Cap Nuts	
2	Spray Tip Screens	
2	Spray Tips	

Identify Box of Parts



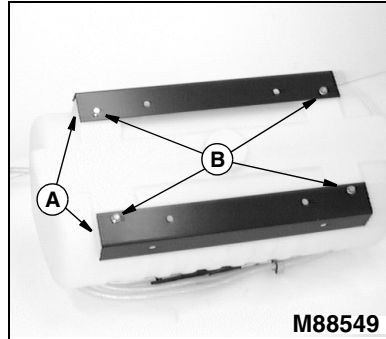
A – 15 Gallon Sprayer Base Unit (Tank with pump and hoses attached)	
B – (2) Tank Supports	E – (1) Spray Boom
C – (2) Mount Angles	F – Wiring Harness
D – (2) Boom Supports	Bag of Parts

ASSEMBLY

Install Tank Supports to Sprayer

1. Install two tank supports (A) to the bottom of the spray tank assembly using four 5/16 x 5/8-Inch flange bolts (B).

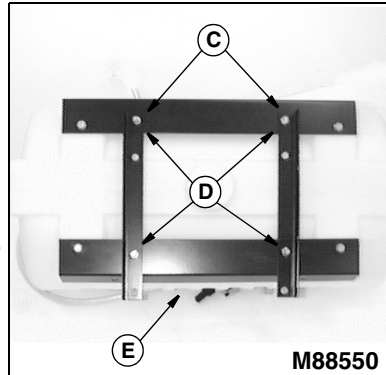
DO NOT tighten at this time.



2. Install two mount angles (C) using four 5/16 x 5/8-Inch flange bolts and four 5/16-Inch flange nuts (D).

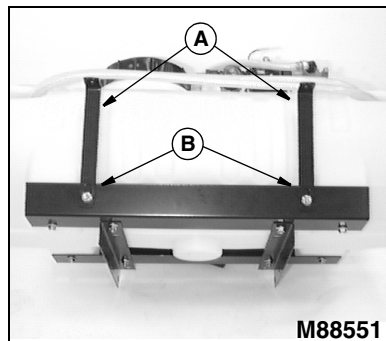
NOTE: The ends that extend past the tank support should be on the same side as the handgun on the front of the tank (E).

3. Tighten all hardware.



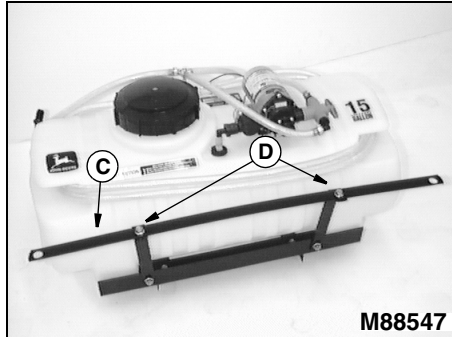
Install Boom Supports and Main Boom

1. Install two boom supports (A) using two 5/16 x 5/8-Inch flange bolts and two 5/16-Inch flange nuts (B).



ASSEMBLY

2. Install the spray boom (C) to the boom supports using two 5/16 x 5/8-Inch flange bolts and two 5/16-Inch flange nuts (D).
3. Tighten nuts.

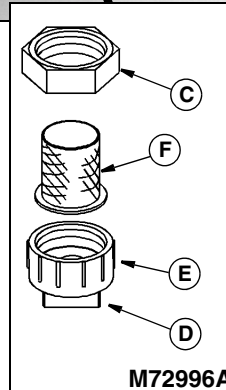
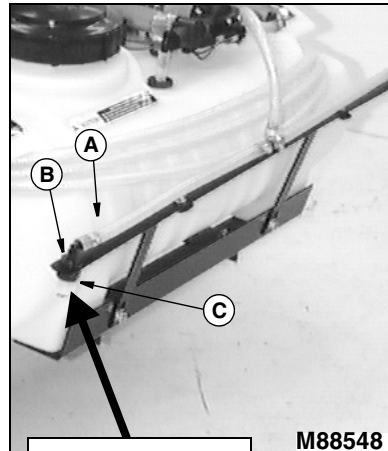


Install Boom Hose Assembly

1. Put one end of hose assembly (A) in hole in boom (B).
2. Install and tighten spray tip fitting lock nut (C).
3. Install spray tip (D) in spray tip fitting cap nut (E).
4. Put flat side of spray tip screen (F) on top of spray tip.

NOTE: Make sure spray tip sets crossways to the direction of travel in the cap nut.

5. Turn fitting cap nuts onto end of hose assembly.
6. Repeat the above steps for the other end of hose assembly.
7. Adjust tip height and width. (See Adjusting Tip Height and Width in the Operating section.)



ASSEMBLY

Tractor Trunk Mounting Frame Hardware

NOTE: There is a 3/8 x 3/4 inch drilled pin and a spring locking pin still left in the bag of parts. After the sprayer is attached to the tractor trunk mounting frame, this hardware is used to lock the tractor trunk dumping lever.

SPECIFICATIONS

Model 15 Gallon Sprayer

Tank	57 L (15 gallon)
Pump:	
• Type	Electric Motor and Diaphragm
• Manufacturer	Shurr Flo
• Current Draw	7 amp
• Fuse	15 amp
• System Pressure	620 kPa (90 psi)
Spray Rate	4.8 L/min. (1.25 U.S. gal./min.)
Suction Hose Strainer	Stainless Steel
Spray Tip Material	Two 90° Stainless Steel
Handgun Material	Plastic
Handgun Adjustment	Fan To Stream
Weight:	
• Empty	15 kg (35 lbs)
• Full	69 kg (153 lbs)

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Step 1 Refer to your operator's manual

- A. It has many illustrations and detailed information on the safe and proper operation of your equipment.
- B. It gives troubleshooting procedures, and specification information.
- C. It gives ordering information for parts catalogs, service and technical manuals.
- D. If your questions are not answered in the operator's manual, then go to Step 2.

Step 2 Contact your dealer

- A. Your John Deere dealer has the responsibility, authority, and ability to answer questions, resolve problems, and fulfill your parts and service needs.
- B. First, discuss your questions or problems with your dealer's trained parts and service staff.
- C. If the parts and service people are unable to resolve your problem, see the eldership manager or owner.
- D. If your questions or problems are not resolved by the dealer, then go to Step 3.

Step 3 Call the John Deere Customer Communications Center

- A. Your John Deere dealer is the most efficient source in addressing any concern, but if you are not able to resolve your problem after checking your operator's manual and contacting your dealer, call the Customer Communications Center.
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 - The name of the dealer with whom you've been working.
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 - Your 13-digit serial number which you recorded on the inside front cover of this manual.
 - If the problem is with an attachment, your attachment identification number.
- C. Then call 1-800-537-8233 and our advisor will work with your dealer to investigate your concern.

